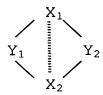
What is claimed is:

1. A composition for inhibiting the RNase H activity of a retroid virus reverse transcriptase comprising an inhibitory agent of Formula I:



10 Formula I

wherein,

 X_1 and X_2 are antiparallel complementary oligonucleotide strands that associate to form a duplex;

 X_1 is 2 to 24 nucleotides in length;

15 X_2 is 2 to 24 nucleotides in length;

 Y_1 is 0 to 8 nucleotides in length;

 Y_2 is 0 to 8 nucleotides in length;

at least one of Y_1 or Y_2 is 2 to 8 nucleotides in length; and

- Y₁ and Y₂ each independently contain a ribonucleic acid; 2',5'-linked ribonucleic acid; or combination thereof wherein said ribonucleic acid comprises the sequence 5'-UUYG-3'/2' (SEQ ID NO:1).
- 25 2. A composition of claim 1, wherein X₁ and X₂ of Formula I are comprised of 3',5'-linked ribonucleic acid; deoxyribonucleic acid; 2',5'-linked ribonucleic acid; arabinonucleic acid; 2'-fluoro-arabinonucleic acid; locked nucleic acid; peptide nucleic acids; or a combination thereof
 - 3. A composition of claim 1, wherein X_1 and X_2 of Formula I are comprised of 3',5'-linked ribonucleic acid.

- 4. A composition of claim 1, wherein X_1 and X_2 of Formula I are comprised of deoxyribonucleic acid.
- 5. A composition of claim 1, wherein X_1 and X_2 of Formula I are comprised of a combination of 3',5'-linked ribonucleic acid and deoxyribonucleic acid.
- 6. A composition of claim 1, wherein X_1 and X_2 of 10 Formula I are 3',5'-linked ribonucleic acid and are 4 to 10 nucleotides in length.
- 7. A composition of claim 1, wherein Y_1 and Y_2 are a 3',5'-linked tetraribonucleotide of the sequence 5'-UUYG-3' (SEQ ID NO:1).
 - 8. A composition of claim 1, wherein said composition is a cyclic structure.
- 9. A method for inhibiting the replication of a retroid virus comprising contacting a cell infected with a retroid virus with a composition of claim 1 which inhibits the RNase H activity of a retroid virus reverse transcriptase thereby inhibiting the replication of the retroid virus in said cell.
- 10. A method for preventing or treating a retroid virus infection comprising administering to a subject having or at risk of having a retroid virus infection an effective 30 amount of a composition of claim 1 which inhibits the RNase H activity of the retroid virus reverse transcriptase so that the replication of the retroid virus is inhibited and

the retroid virus infection in said subject is prevented or treated.